WHAT IS CLAIMED IS:

- 1. A composition comprising at least two recombinant adeno-associated viruses (AAV), comprising:
 - a first recombinant AAV comprising a first recombinant DNA a) molecule comprising linked:
 - i) a first DNA segment comprising a 5'-inverted terminal repeat of AAV;
 - a second DNA segment which does not comprise AAV ii) sequences; and
 - a third DNA segment comprising a 3'-inverted terminal iii) repeat of AAV; and
 - b) a second recombinant AAV comprising a second recombinant DNA molecule comprising linked:
 - i) a first DNA segment comprising a 5'-inverted terminal repeat of AAV;
 - a second DNA segment which does not comprise AAV ii) sequences and which second DNA segment is different than the second DNA segment of the first recombinant DNA molecule; and
 - iii) a third DNA segment comprising a 3'-inverted terminal repeat of AAV.
- 2. The composition of claim 1 further comprising a delivery vehicle.
- 3. The composition of claim 2 where the vehicle is a pharmaceutically acceptable carrier.

- 4. The composition of claim 1 wherein the second DNA segment of the first recombinant DNA molecule comprises a portion of an open reading frame operably linked to a promoter.
- 5. The composition of claim 4 wherein the first recombinant DNA molecule comprises a splice donor site 3' to the open reading frame.
- 6. The composition of Naim 4 wherein the second DNA segment of the second recombinant DNA molecule comprises the remainder of the open reading frame which together with the second DNA segment of the first recombinant DNA molecule encodes a full length polypeptide.
- 7. The composition of claim 6 wherein the second DNA segment of the second recombinant DNA molecule comprises a splice acceptor site 5' to the remainder of the open reading frame.
 - 8. The composition of claim 1 wherein the second DNA segment of the first recombinant DNA molecule comprises an enhancer.
 - 9. The composition of claim 1 wherein the second DNA segment of the first recombinant DNA molecule comprises a promoter.
 - 10. The composition of claim 8 or 9 wherein the second DNA segment of the second recombinant DNA molecule comprises at least a portion of an open reading frame.
 - 11. The composition of claim 10 wherein the second DNA segment of the second recombinant DNA molecule further comprises a promoter operably linked to the open reading frame.

- 12. The composition of claim 1 wherein the second DNA segment of the first recombinant DNA molecule comprises an origin of replication functional in a host cell.
- 13. The composition of claim 12 wherein the origin is a viral origin of replication.
- 14. The composition of claim 13 wherein the origin is functional in a human cell.
- 15. The composition of claim 12 wherein the second DNA segment of the first recombinant DNA molecule further comprises DNA encoding a protein that binds to the origin of replication.
- 16. The composition of claim 15 wherein the second DNA segment in the second recombinant DNA molecule comprises at least a portion of an open reading frame.
- 17. The composition of claim 16 wherein the second DNA segment in the second recombinant DNA molecule further comprises a promoter operably linked to the open reading frame.
- 18. A recombinant adeno-associated viral vector comprising a heterologous origin of replication.
- 19. A recombinant adeno-associated viral vector comprising at least one heterologous transcriptional regulatory element functional in a host cell and which does not comprise sequences which encode a protein.
 - 20. The vector of claim 19 wherein the element is a promoter.

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- 21. The vector of claim 19 wherein the element is an enhancer.
- 22. A recombinant adeno-associated viral vector comprising a DNA sequence encoding a protein that binds to a beterologous origin of replication.
- 23. A plasmid comprising the vector of claim 18, 19 of 22.
- 24. A host cell contacted with the composition of claim 1.
- 25. A host cell contacted with at least two recombinant AAV, wherein a first recombinant AAV comprises a first recombinant DNA molecule comprising linked:
 - i) a first DNA segment comprising a 5'-inverted terminal repeat of AAV;
 - ii) a second DNA segment which does not comprise adenoassociated viral sequences; and
 - iii) a third DNA segment comprising a 3'-inverted terminal repeat of AAV; and

wherein a second recombinant AAY comprises a second recombinant DNA molecule comprising linked:

- i) a first DNA segment comprising a 5'-inverted terminal repeat of AAV;
- ii) a second DNA segment which does not comprise adenoassociated viral sequences and which second DNA segment is different than the second DNA segment of the first recombinant DNA molecule; and
- iii) a third/DNA segment comprising a 3'-inverted terminal repeat of AAV.

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- 26. A method to transfer recombinant DNAs to a Host cell, comprising: contacting the host cell with at least two recombinant AAV, wherein a first recombinant AAV comprises a first recombinant DNA molecule comprising linked:
 - i) a first DNA segment comprising a 5'-inverted terminal repeat of AAV;
 - ii) a second DNA segment which does not comprise adenoassociated viral sequences; and
 - iii) a third DNA segment/comprising a 3'-inverted terminal repeat of AAV; and

wherein a second recombinant AAV comprises a second recombinant DNA molecule comprising linked:

- i) a first DNA segment comprising a 5'-inverted terminal repeat of AAV;
- associated viral sequences and which second DNA segment is different than the second DNA segment of the first recombinant DNA molecule; and
- iii) a third DNA segment comprising a 3'-inverted terminal repeat of AAV
- 27. A method to transfer and express a polypeptide in a host cell comprising contacting the host cell with the composition of claim 1.
- 28. The method of claim 26 or 27 wherein the second DNA segment of the first recombinant DNA molecule comprises a portion of an open reading frame operably linked to a promoter.
- 29. The method of claim 28 wherein the first recombinant DNA molecule comprises a splice donor site 3' to the open reading frame.

- 30. The method of claim 29 wherein the second DNA segment of the second recombinant DNA molecule comprises the remainder of the open reading frame which together with the second DNA segment of the first recombinant DNA molecule encodes a full-length polypeptide.
- 31. The method of claim 30 wherein the second DNA segment of the second recombinant DNA molecule comprises a splice acceptor site 5' to the remainder of the open reading frame.
- 32. The method of <u>claim 26 or 27</u> wherein the second DNA segment of the first recombinant DNA molecule comprises an enhancer.
- 33. The method of claim 26 or 27 wherein the second DNA segment of the first recombinant DNA molecule comprises a promoter.
- 34. The method of claim 32 wherein the second DNA segment of the second recombinant DNA molecule comprises at least a portion of an open reading frame.
- 35. The method of claim 33 wherein the second DNA segment of the second recombinant DNA molecule comprises at least a portion of an open reading frame.
- 36. The method of claim 34 wherein the second DNA segment of the second recombinant DNA molecule further comprises a promoter operably linked to the open reading frame.
- 37. The method of claim 35 wherein the second DNA segment of the second recombinant DNA molecule further comprises a promoter operably linked to the open reading frame.

- 38. The method of claim 26 or 27 wherein the second DNA segment of the first recombinant DNA molecule comprises an origin of replication functional in a host cell.
- The method of claim 18 wherein the origin is a viral origin of replication.
- 40. The method of claim 39 wherein the origin is functional in a human cell.
- 41. The method of claim 26 or 27 wherein the second DNA segment of the first recombinant DNA molecule further comprises DNA encoding a protein that binds to the origin of replication.
- The method of claim 41 wherein the second DNA segment in the second recombinant DNA molecule comprises a portion of an open reading frame.
- 43. The method of claim 41 wherein the second DNA segment in the second recombinant DNA molecule further comprises a promoter operably linked to the open reading frame.
- 44. A recombinant adeno-associated viral vector comprising a DNA sequence encoding a protein that binds to a heterologous origin of replication for use in medical therapy.
- 45. A recombinant adeno-associated viral vector comprising a heterologous origin of replication for use in medical therapy.

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